

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-34 (canceled)

35. (Currently amended) A method of removing a chemical pollutant comprising a step of forming an intermediate in the production of a carbonaceous mixture that comprises carbon nanotubes and expanded graphite, wherein the carbon nanotubes further comprise at least one of a C₁, C₂, C₃, C₄, and C₅ radical, and wherein the intermediate comprises a carbonaceous feedstock and at least one compound according to the general formula MXO_n, wherein M is selected from the group consisting of H, NH₄, Na, and K, wherein X is selected from the group consisting of Cl, Br, and I, and wherein n is an integer between 1 and 4, inclusive; a step of forming the carbonaceous mixture from the intermediate under conditions that yield no less than 10% nanotubes; and further comprising a step of contacting the carbonaceous material with the pollutant to thereby remove the pollutant.
36. (Currently amended) The method of claim 35 wherein the condition that yields no less than 10% nanotubes comprises a step of reacting the at least one compound with the carbonaceous feedstock at atmospheric pressure and about room temperature nanotubes in the carbonaceous mixture are present in an amount of at least 10%.
37. (Currently amended) The method of claim [35] 36 wherein the nanotubes have a size of between 1 nm to 10 nm.
38. (Currently amended) The method of claim [35] 36 wherein the nanotubes further comprise a carbon radical having a hexagonal ring structure comprising at least one of a C₁, C₂, C₃, C₄, and C₅ radical.
39. (Currently amended) The method of claim [35] 36 wherein the carbonaceous feedstock and the at least one compound are present in an amount of 2:1.

40. (Currently amended) The method of claim [35] 36 wherein the carbonaceous feedstock comprises graphite flakes or graphite powder.
41. (Currently amended) The method of claim [35] 36 wherein M is H.
42. (Currently amended) The method of claim [35] 36 wherein M is NH_4 .
43. (Currently amended) The method of claim [35] 36 wherein M is Na.
44. (Currently amended) The method of claim [35] 36 wherein M is K.
45. (Currently amended) The method of claim [35] 36 wherein X is Cl.
46. (Currently amended) The method of claim [35] 36 wherein X is Br.
47. (Currently amended) The method of claim [35] 36 wherein X is I.
48. (Currently amended) The method of claim [35] 36 wherein n is 1.
49. (Currently amended) The method of claim [35] 36 wherein n is 2.
50. (Currently amended) The method of claim [35] 36 wherein n is 3.
51. (Currently amended) The method of claim [35] 36 wherein n is 4.